

Preliminary Data Sheet

General Purpose Rectifiers Standard Recovery Plastic Silicon Rectifiers

AXIAL LEAD DO-41

Specification Features:

Case: Epoxy, Molded

Weight: 0.4 gram (approximately)

Finish: All External Surfaces Corrosion Resistant And Terminal Leads Are

Readily Solderable

Lead And Mounting Surface Temperature For Soldering Purposed:

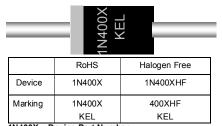
 $260\,^\circ\!\!\!\!\mathrm{C}$ Max. For 10 Seconds 1.16 Inch From Case

RoHS Compliant or Halogen Free Option

Low Reverse Leakage, High Forward Surge Capability

Cathode Indicated By Polarity Band

DEVICE MARKING DIAGRAM



1N400X = Device Part Number x = 1, 2, 3, 4, 5, 6 or 7

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

<u> </u>									
Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum DC Blocking Voltage	V_R	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectifier Current. (0.375" Lead Length @ T _A =75°C)	I _{F(AV)}	1.0					А		
Non-repetitive Peak Forward Surge Current. (8.3mS Single Half Sine-wave)	I _{FSM}	30					А		
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +175						°C	
Thermal Resistance (Junction to Ambient)	R _{BJA}	65					°C/W		

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Reverse Current @V _R	I _R	5					uA		
Forward Voltage @1A	V _F	1.1					V		
Total Capacitance @VR=4V, f=1MHz	Ст				15				pF

Number: DB-082 June 2009 Release / B



Package Outline

Package	Case Outline								
	A C								
DO-41		DO-41							
	DIM	Millim	neters	Inches					
		Min	Max	Min	Max				
	Α	0.70	0.86	0.028	0.034				
	В	4.20	5.20	0.166	0.205				
	С	25.40		1.000					
	D	2.00	2.70	0.080	0.107				
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NOTICE

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